CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 21-077

ADMINISTRATIVE DOCUMENTS

NDA/EFFICACY SUPPLEMENT ACTION PACKAGE CHECKLIST

NDA 21-077 * SE			
		Annicont Clave Wellerma	
Drug ADVAIR DISKUS		Applicant Glaxo Wellcome	
RPM Parinda Jani		Phone (3010 827-	-1004
2 505(b)(1)	1'		
□505(b)(2) Reference			
□Fast Track	☐Rolling Revie	w Review	priority: 🛮 S 🖸 P
Pivotal IND(s)	<u> </u>	•••	
Application classifie	cations:	PDUFA Goa	I Dates:
			
Chem Class	_4S	Prim	ary August 25, 2000
Other (e.g., or	phan, OTC)	Seco	ndary
Arrange package in the fo	ollowing order:		N/A (not applicable),
		X (comp	oleted), or add a
GENERAL INFORMAT	ION:	commen	it j
◆ User Fee Information:	User Fee Paid		in the second second
	☐ User Fee Waiver (attack	ch waiver notification letter)	Ē.
•	☐ User Fee Exemption		
Action Letter			🗷 AP 🗆 AE 🗆 NA
◆ Labeling & Labels			
	and reviews		X
		ent package insert)	- x
		abeling	
		Yes	(include review) I No
	_		•
Nomenclature review			$\frac{X}{X}$
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AIP.	oncy (AIF) in Applicant is	s on the Air. This application	II LI IS BIS NOT OUT THE
	(Camban Dimantania		
			57.4
Status of advertising (if AP	action) \square Reviewed (for	Subpart H – attach review)	
	<u>-</u> •.		in AP letter
◆ Post-marketing Commi			
			X
		action only)?	🛮 Yes 🛚 No
	e or Talk Paper	None	
◆ Patent	•	-	
			X
Patent Certification [505(b)(2)]		
Copy of notification (to patent holder [21 CFR 3	14.50 (i)(4)]	
Exclusivity Summary	•••••		X
Debarment Statement			X

♦ Financial Disclosure		X
No disclosable information		X
Disclosable information – indicate where review is located		
Correspondence/Memoranda/Faxes	••••	X
♦ Minutes of Meetings		X
Date of EOP2 Meeting		
Date of pre NDA Meeting	•	
Date of pre-AP Safety Conference		
♦ Advisory Committee Meeting	••	•
Date of Meeting		November 23
Questions considered by the committee		X X
Minutes or 48-hour alert or pertinent section of transcript	• •••••	X
♦ Federal Register Notices, DESI documents	•••••	
CLINICAL INFORMATION:		N/A (not applica
		eted), or add a
	comment	· Ē
Summary memoranda (e.g., Office Director's memo, Division Director's	memo,	
Group Leader's memo)		X
Clinical review(s) and memoranda	• • • • • • • •	X_ <u>-</u>
Safety Update review(s)(included in the clinical		X
review)		
Pediatric Information		
☐ Waiver/partial waiver (Indicate location of rationale for waiver)	☐ Deferre	d
Pediatric Page		
☐ Pediatric Exclusivity requested? ☐ Denied ☐ Granted ☐ No	t Applicabl	е
Statistical review(s) and memoranda		X
Biopharmaceutical review(s) and memoranda		X
Abuse Liability review(s)		
Recommendation for scheduling		N/A
Microbiology (efficacy) review(s) and memoranda		N/A
♦ DSI Audits :		X
☐Clinical studies ☐ bioequivalence studies		
CMC INFORMATION:	Indicate l	N/A (not applica
	X (compl	eted), or add a
	comment	* *
CMC review(s) and memoranda	,	v
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Statistics review(s) and memoranda regarding dissolution and/or stability		X X
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	Pacilities Inspection (include EES report) Date completed May 5, 2000 Methods Validation		☐ Not Acceptable ☐ Not Completed
PI	RECLINICAL PHARM/TOX INFORMATION:	Indicate N/A X (complete	A (not applicable), ed), or add a
	narm/Tox review(s) and memoranda		X
	emo from DSI regarding GLP inspection (if any)		
St	atistical review(s) of carcinogenicity studies		· · · · · · · · · · · · · · · · · · ·
•	CAC/ECAC report	-	

APPEARS THIS WAY ON ORIGINAL

Office of Postmarketing Drug Risk Assessment (OPDRA)

HFD-400; Parklawn Building Room 15B-03

FDA Center for Drug Evaluation and Research

PROPRIETARY NAME REVIEW

DATE OF REVIEW:		January 19, 2000		
ND	A NUMBER:	21-077		
NA	ME OF DRUG:	Advair TM Diskus® (salmeterol xinafoate/fluticasone propionate inhalation powder)		
NDA HOLDER:		Glaxo Wellcome, Inc. Research Triangle Park, NC 27709		
I.	INTRODUCTION	1	-	
	Drug Products (HFD-5 Diskus and A information on how to in the tr	en in response to a request from the Division of Pulmonary and Allergy (70) for assessment of the tradenames Advair Diskus — Advair Advair Diskus — In particular, the Division expressed a need for identify the salmeterol component in the tradename and to express — radename. The sponsor has proposed to include — in the tradename, since the salmeterol component is the same in (e.g., 50 mcg) and the fluticasone component varies (e.g., 100mcg, 250mcg)		
		been requested regarding the name "Advair Diskus ———————————— and complet 9, 1999. The conclusion of the LNC at that time was as follows:	ted	
	[names]; strength of on	TC) and Advera (OTC) [are considered to be] look-alike, sound-alike aly one ingredient is misleading. Sponsor should re-do explanation of ingredients; [this name is considered to be] acceptable."		
	fluticasone propionate. with fluticasone propio maintenance treatment Diskus comes supplied active drug combinatio blister to load the drug when ready. This manu	Three strengths will be available: salmeterol xinafoate 50 mcg in combination and 100 mcg, 250 mcg or 500 mcg. This product is indicated for the of asthma in patients 12 years of age and older. All with a disposable inhaler device that contains either 28 or 60 blisters of the powder for inhalation into a chamber and the patient then inhales the powd facturer currently holds NDAs for other products that utilize the DISKUS because Diskus.	ation dvair he he der	

II. SAFETY AND RISK ASSESSMENT

A. Product name search, product availability and dosing comparison, and focus group

The medication error staff of OPDRA conducted a search of several standard published drug product reference texts^{i,ii,iii} as well as several FDA databases^{iv} for existing drug names which sound alike or look alike to Advair Diskus to a degree where potential confusion between drug names could occur under the usual clinical practice settings. A search of the electronic online version of the U.S. Patent and Trademark Office's Text and Image Database was also conducted. An internal focus group discussion was conducted to review all findings from the searches.

A number of product names were identified in the OPDRA focus group that were thought to have potential for confusion. These products included Advil (ibuprofen tablets 50mg, 100mg, 200mg, concentrated drops, oral suspension), Advera (liquid nutritional supplement for HIV/AIDS patients, Arava (leflunomide 10mg, 20mg, 100mg oral tablets), Avandia (rosaglitazone 2mg, 4mg, 8mg oral tablets), Avita (tretinoin topical gel), Maxair (pirbuterol inhalers).

Of these products, Advil was considered to be the most likely product to be confused with Advair, This seems particularly likely if only one ingredient strength is included in the Advair proprietary name and the designation "mcg" is included as well. For example, "Advair ————;" could be confused with "Advil 100mg" in verbal or written prescriptions, as could the other strengths of Advair. It also seems unlikely that physicians will include the additional dosage form name "Diskus" in communicating prescriptions, as no other dosage forms of Advair are currently available in the U.S.

III. LABELING, PACKAGING AND SAFETY RELATED ISSUES

In reviewing the draft labeling for Advair Diskus, OPDRA has attempted to focus on safety issues relating to potential medication errors. Many of the items discussed in this consult involve issues normally reviewed by the chemist and medical officer.

We reviewed the draft product labeling for Advair Diskus and identified several labeling, packaging, and safety concerns.

A. CONTAINER AND CARTON LABELING (50mcg/100mcg, 50mcg/250mcg, 50mcg/500mcg products)

1. The established name printed on the round front device label must be at least 50% of the size of the proprietary name (see 21 CFR 201.10).

Facts and Comparisons, online version, Facts and Comparisons, St. Louis, MO.

WWW location http://www.uspto.gov/tmdb/index.html.

¹ MICROMEDEX Healthcare Intranet Series, 1999, MICROMEDEX, Inc., 6200 South Syracuse Way, Suite 300, Englewood, Colorado 80111-4740, which includes the following published texts: DrugDex, Poisindex, Martindale (Parfitt K (Ed), Martindale: The Complete Drug Reference. London: Pharmaceutical Press. Electronic version.), Emergindex, Reprodisk, Index Nominum, and PDR/Physician's Desk Reference (Medical Economics Company Inc, 1999).

American Drug Index, online version, Facts and Comparisons, St. Louis, MO.

The Drug Product Reference File [DPR], the Established Evaluation System [EES], the AMF Decision Support System [DSS], the Labeling and Nomenclature Committee [LNC] database of Proprietary name consultation requests, New Drug Approvals 98-99, and the electronic online version of the FDA Orange Book.

2.	We recognize that the Agency has previously requested that the applicant holder revise their established name. However, the Description section of the package insert states that each blister contains salmeterol xinafoate equivalent to salmeterol 50 mcg. If this is true, then all other labels and labeling should be revised accordingly, since the product has been erroneously and perhaps inadvertently labeled as having 50 mcg of salmeterol xinafoate. Per USP/NF standards, we suggest that the statement
3.	We would recommend that the strength of each active ingredient as indicated in brackets below. We suggest the following, although
	there may be other alternatives to this suggested format:
4.	We would recommend that the usual dosage statement be revised, as recommended by 21 CFR 201.100(b)(2) to the following: USUAL DOSAGE:
5.	We understand that this is a DISKUS product, similar in design and labeling to Serevent Diskus. However, this combination drug product will be difficult to prescribe with the additional modifiers of DISKUS and the numerical representation of the three strengths of Advair. For simplicity, we would ask the sponsor to consider one of the following alternative naming schemes:
	-or-
6.	We note that the primary color scheme for the round device label and carton is different for each strength of the product (e.g., 50/100 blue, 50/250 purple, 50/500 gray). However, the square label for the foil overwrap is purple for all strengths. Although large, background reverse print of "100", "250" and "500" is included on each foil overwrap, we have some concern that the 50/100 and 50/500 strength products may be mistaken for the 50/250 products. We saggest that these overwraps either bear a color consistent for each strength or be

B. PACKAGE INSERT and PATIENT MEDICATION GUIDE

See changes as recommended above.

absent of color (e.g., white).

IV. DISCUSSION

In reviewing this proprietary name, several names were identified that had some sound-alike and lookalike qualities. One product in particular, Advil, seems most likely to be confused verbally with Advair in communicating and interpreting prescriptions for either product. Although Advil is an over-

	not	-counter product, written or verbal inpatient or outpatient prescription orders for OTC products are rare. However, due to the short time provided for this review, we were unable to conduct our mal handwriften and verbal prescription studies.							
	appropries to it salid vice in vice also	in the proprietary name is misleading and may be confusing; it gives the bearance that the product contains only It would be highly undesirable for a patient receive or continue to use a second inhaler that contained salmeterol, given the nature of this drug the need for strict compliance with the currently FDA-approved twice-daily dosing schedule for meterol products. Inclusion of a prescription for Advair would also seem increase the likelihood of misinterpretation of a prescription for Advair with Advil (ibuprofen), or eversa. Advil is now available in multiple strengths, for use not only adults but also in pediatrics, which dosing tends to be based on weight and age and thus not uniform. Advil and other NSAIDS to have precautions for use in patients with asthma, as they may have an increased risk of inchospasm with their use.							
	We have suggested alternatives in which numerical suffixes would be added to the name:								
	inc sou	te that either naming scheme does not include "mcg" after the numerical suffix. We believe the lusion of "mcg" will increase the likelihood of medication errors in which Advair is mistaken for a and-alike or look-alike drug and also give a stronger impression that Advair contains only one redient.							
V.		RECOMMENDATIONS							
	A.	OPDRA has no objections to the use of the proprietary name Advair, without inclusion of the delivery device name "DISKUS". We disagree with the concept of including only the — in the name.							
		We suggest the following alternative formats for distinguishing among the three strengths of this product:							
		-or-							
	В.	OPDRA recommends that the Labeling and Nomenclature Committee be advised of our comments concerning the established name of the product.							
	C.	OPDRA recommends the above labeling revisions to minimize potential errors with the use of this product.							

OPDRA would appreciate feedback of the final outcome of this consult (e.g., copy of revised labels/labeling). We are willing to meet with the Division for further discussion as well. If you have any questions concerning this review, please contact Carol Pamer, R.Ph. at 301-827-3245.

APPEARS THIS WAY ON ORIGINAL

/S/

Carol Pamer, R.Ph.
Safety Evaluator
Office of Postmarketing Drug Risk Assessment (OPDRA)

APPEARS THIS WAY ON ORIGINAL

Concur:

15/

 cc: NDA 21-077

HFD-570; Division Files/Parinda Jani, Project Manager

HFD-570; Robert J. Meyer, Division Director HFD-400; Min Chen, Team Leader, OPDRA

HFD-400; Claudia Karwoski, Safety Evaluator, OPDRA

HFD-400; Carol Pamer, Safety Evaluator, OPDRA

HFD-400; Jerry Phillips, Associate Director, OPDRA

HFD-400; Peter Honig, Deputy Director, OPDRA

HFD-002; Murray Lumpkin, Acting Director, OPDRA

APPEARS THIS WAY ON ORIGINAL

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DEPARTMENT OF HEALTH & HUMAN SERVICES

NDA 21-077

Food and Drug Administration Rockville MD 20857

AUG 2 4 2000

Glaxo Wellcome Inc.
Five Moore Drive
Research Triangle Park, North Carolina 27709

Attention:

Joy E. Farrell

Director, Regulatory Affairs

Dear Ms. Farrell:

Please refer to your new drug application (NDA) dated March 24, 1999, received March 25, 1999, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for ADVAIR DISKUS 100/50 (fluticasone propionate 100 meg and salmeterol xinafoate 50 meg inhalation powder), ADVAIR DISKUS 250/50 (fluticasone propionate 250 meg and salmeterol xinafoate 50 meg inhalation powder) and ADVAIR DISKUS 500/50 (fluticasone propionate 500 meg and salmeterol xinafoate 50 meg inhalation powder).

We acknowledge receipt of your submissions dated May 28, June 30, July 16, August 30, September 23 and 29, October 13 and 22, and December 6, 1999, January 13, February 25,

APPEARS THIS WAY

DEPARTMENT OF HEALTH & HUMAN SERVICES



NDA 21-077

Food and Drug Administration Rockville MD 20857

AUG 2 4 2000

Glaxo Wellcome Inc. Five Moore Drive Research Triangle Park, North Carolina 27709

Attention:

Joy E. Farrell

Director, Regulatory Affairs

Dear Ms. Farrell:

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We acknowledge receipt of your submissions dated May 28, June 30, July 16, August 30, September 23 and 29, October 13 and 22, and December 6, 1999, January 13, February 25, March 15, April 18, July 17, 25, and 26, August 14, 18, 22, 23, and 24, 2000. Your submission of February 25, 2000, constituted a complete response to our January 27, 2000, action letter.

This new drug application provides for the use of ADVAIR DISKUS (fluticasone propionate and salmeterol xinafoate) inhalation powder for the long-term, twice-daily, maintenance treatment of asthma in patients 12 years of age and older.

We have completed the review of this application, as amended, and have concluded that adequate information has been presented to demonstrate that the drug product is safe and effective for use as recommended in the agreed upon labeling text. Accordingly, the application is approved effective on the date of this letter.

The final printed labeling (FPL) must be identical to the submitted draft labeling (package insert and Patient's Instruction for Use leaflet submitted August 24, 2000, and immediate container and carton labels submitted August 23, 2000). Marketing the product with FPL that is not identical to the approved labeling text may render the product misbranded and an unapproved new drug.

Please submit 20 paper copies of the FPL as soon as it is available, in no case more than 30 days after it is printed. Please individually mount ten of the copies on heavy-weight paper or similar material. Alternatively, you may submit the FPL electronically according to the guidance for industry titled *Providing Regulatory Submissions in Electronic Format - NDAs* (January 1999). For administrative purposes, this submission should be designated "FPL for approved NDA 21-077." Approval of this submission by FDA is not required before the labeling is used.

We remind you of your Phase 4 commitment specified in your submission dated August 24, 2000. This commitment, along with completion date agreed upon, is listed below.

Glaxo Wellcome will provide a summary of the existing pharmacokinetics and pharmacodynamic data on fluticasone propionate in patients with asthma to place in context the apparent gender effects that were observed in the study SFCB3019. In the event the available data are inadequate to determine if a gender effect does or does not exist, Glaxo Wellcome will conduct a clinical pharmacology trial to examine the pharmacokinetics and pharmacodynamic effect of fluticasone propionate administration to male and female asthma patients in an attempt to definitively assess for gender effects. These data will be provided to the Agency by February 2002.

Protocols, data, and final reports should be submitted to your IND for this product and a copy of the cover letter sent to this NDA. If an IND is not required to meet your Phase 4 commitment, please submit protocols, data and final reports to this NDA as correspondence. In addition, under 21 CFR 314.81(b)(2)(vii), we request that you include a status summary of the commitment in your annual report to this NDA. The status summary should include the number of patients entered in each study, expected completion and submission dates, and any changes in plans since the last annual report. For administrative purposes, all submissions, including labeling supplements, relating to these Phase 4 commitments must be clearly designated "Phase 4 Commitments."

Validation of the regulatory methods has not been completed. At the present time, it is the policy of the Center not to withhold approval because the methods are being validated. Nevertheless, we expect your continued cooperation to resolve any problems that may be identified.

Be advised that, as of April 1, 1999, all applications for new active ingredients, new dosage forms, new indications, new routes of administration, and new dosing regimens are required to contain an assessment of the safety and effectiveness of the product in pediatric patients unless this requirement is waived or deferred (63 FR 66632). We note that you have fulfilled the requirements of 21 CFR 314.55 (or 601.27) for pediatric patients 12 years of age and above. However, you have not fulfilled the requirements for pediatric patients under 12 years of age. We are deferring submission of the further required pediatric studies until August 2002.

If you believe that this drug qualifies for a waiver of the pediatric study requirement, you should submit a request for a waiver with supporting information and documentation in accordance with the provisions of 21 CFR 314.55 within 60 days from the date of this letter. We will notify you within 120 days of receipt of your request whether a waiver is granted. If a waiver is not granted, we will ask you to submit your pediatric drug development plans within 120 days from the date of denial of the waiver.

Pediatric studies conducted under the terms of section 505A of the Federal Food, Drug, and Cosmetic Act may result in additional marketing exclusivity for certain products (pediatric exclusivity). You should refer to the Guidance for Industry on Qualifying for Pediatric Exclusivity (available on our web site at www.fda.gov/cder/pediatric) for details. If you wish to qualify for pediatric exclusivity you should submit a "Proposed Pediatric Study Request" (PPSR) in addition to your plans for pediatric drug development described above. We recommend that you submit a Proposed Pediatric Study Request within 120 days from the date of this letter. If you are unable to meet this time frame but are interested in pediatric exclusivity, please notify the division in writing. FDA generally will not accept studies submitted to an NDA before issuance of a Written Request as responsive to a Written Request. Sponsors should obtain a Written Request before submitting pediatric studies to an NDA. If you do not submit a PPSR or indicate that you are interested in pediatric exclusivity, we will review your pediatric drug development plan and notify you of its adequacy. Please note that satisfaction of the requirements in 21 CFR 314.55 alone may not qualify you for pediatric exclusivity. FDA does not necessarily ask a sponsor to complete the same scope of studies to qualify for pediatric exclusivity as it does to fulfill the requirements of the pediatric rule.

In addition, please submit three copies of the introductory promotional materials that you propose to use for this product. All proposed materials should be submitted in draft or mock-up form, not final print. Please submit one copy to this Division and two copies of both the promotional materials and the package insert directly to:

Division of Drug Marketing, Advertising, and Communications, HFD-42 Food and Drug Administration 5600 Fishers Lane Rockville, Maryland 20857

Please submit one market package of the drug product for each strength when it is available.

We remind you that you must comply with the requirements for an approved NDA set forth under 21 CFR 314.80 and 314.81.

If you have any questions, call Ms. Parinda Jani, Project Manager, at (301) 827-1064.

Sincerely yours,

Robert J. Meyer, M.D.

Director

Division of Pulmonary and Allergy Drug Products

Office of Drug Evaluation II

Center for Drug Evaluation and Research

APPEARS THIS WAY
ON ORIGINAL

CDER LABELING AND NOMENCLATURE COMMITTEE

	570 PROP	PROPOSED PROPRIETARY NAME:			PROPOSED ESTABLISHED NAME:			
ATTENTION: Parinda Jani		Advair Diskus			salmeterol xinafoate 50 mog and fluticasone			
RE: NDA/IND #	D# 21-077				propionate 100 mog inhalation powder			
				_				
A. Look-elike/Sound-elike						enfusion:		
ADVIL (OTC)				XXX	Low	Medium _	High	
ADVERA (OTC)				XXX	w	Medium _	High	
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B. Misleading Aspects:			C. Oth	er Con	cerns:			
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F. Signature of Chair/Date	7.	<i>'</i>		19/9	19			
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CDER LABELING AND NOMENCLATURE COMMITTEE

CONSULT# 12020 HFD# 570 PROPOSED PROPRIETARY NAME:				Proposed Established Name:				
ATTENTION: Parinda Jani				seimeterol xinefoete 50 mog and fluticasone				
RE: NEA/IND #	21-077		propional	250 mg inhalation	powder			
A. Look-allK8/Sound-allk	•	Pote	ntial for c	onfusion:				
ADVIL (OTC)	ا میں میں میں میں میں اور		Low	Medium	High			
ADVERA (OTC)		XXX	Low	Medium	High			
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B. Misleading Aspects:		C. Other Co	ncerns:					
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include both ingredients.	second potency to				_			
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F. Signature of Chair/Del	اء.	_10/	7/7	/ -				
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CDER LABELING AND NOMENCLATURE COMMITTEE

CONSULT # 1202c HFD# 57	70 PROPOSED PROP	RIETARY NAM	E: PROP	PROPOSED ESTABLISHED NAME:			
ATTENTION: Paginda Jani	Advair Diskus —			salmeterol xinafoete 50 mog and fluticasone			
RE: NBA/IND # 2	-077		propior	ate 500 mcg inhalatio	on powder		
			5 4 1 4 4 4				
A. Look-alike/Sound-alike				r confusion:	Lliah		
ADVIL (OTC)			XXX Low	Medium	High		
ADVERA (OTC)		,	XXX Low	Medium	High		
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D. Established Name							
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E. Proprietary Name Recomm	endations:	•					
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F. Signature of Chair/Detr	15	-	<u>v / //</u>	_//			
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= REQUEST FOR TRADEMARK REVIEW

To:

Labeling and Nomenclature Committee

Attention:

Dan Boring, Chair (HFD-530), 9201 Corporate Blvd, Room N461

From: Division of Pulmonary Drug Products		HFD-570
Attention: Parinda Jani	Phone: (301) 82	7-1064
Date: May 20, 1999		
Subject: Request for Assessment of a Trademark for a	Proposed New Dr	rug Product
Proposed Trademark: ADVAIR DISKUS ——	NDA/ANDA	# NDA
ADVAIR DISKUS ——	21-077	
ADVAIR DISKUS		
Established name, including dosage form:		_
Salmeterol xinafoate 50 mcg and fluticasone propionate 100 m		
Salmeterol xinafoate 50 mcg and fluticasone propionate 250 m		
Salmeterol xinafoate 50 mcg and fluticasone propionate 500 m	cg inhalation pov	vder
Other trademarks by the same firm for companion product 692/AP 9-19-97, Flovent Diskus/NDA 20-833/AE 3-31-99,	is: Serevent Disk	cus/NDA 20-
Indications for Use (may be a summary if proposed statement of asthma and older.	ent is lengthy): in patients 12 y	years of age
Initial Comments from the submitter (concerns, observation ADVAIR is a combination product of salmeterol xinafoate and be available in 3 different strengths, in which the amount of sall (50 mcg), and the amount of fluticasone propionate will be varinged. APPEARS THIS WAY ON ORIGINAL	fluticasone prop meterol xinafoate	e will be same

Note: Meetings of the Committee are scheduled for the 4th Tuesday of the month. Please submit this form at least one week ahead of the meeting. Responses will be as timely as possible.

cc: Original NDA 21-077; HFD-570/division file; HFD-570/Schumaker, Poochikian, Koble

TO (Division/Office): Dan Boring/ HFD 530 DATE 5-20-99 NAME OF DRUG ADVAR DISKSUS PRIORITY CONSIDERATION S PROPRIED COMPLETION S PROPRIED COMPLETION S PROPRIED COMPLETION S PROPRIED COMPLETION July 20, 1999 NAME OF FIRM: Glaxo Wellcome REASON FOR REQUEST L GENERAL NEW PROTOCOL PROCRESS REPORT NEW CORRESPONDENCE PROGRESS REPORT NEW CORRESPONDENCE BRUG ADVERTISING ADVERSE REACTION REPORT ADVERSE REACTION REPORT MANUFACTURING CHANGE/ADDITION MEETING PLANNED BY RESUBMISSION CONTROL SUPPLEMENT TYPE A OR B NDA REVIEW END OF PHASE II MEETING CONTROL SUPPLEMENT TYPE A OR B NDA REVIEW END OF PHASE II MEETING TYPE A OR B NDA REVIEW END OF PHASE II MEETING TYPE A OR B NDA REVIEW OTHER (SPECIFY BELOW): DISSOLUTION DISSOLUTION DISSOLUTION BIOAVAILABILITY STUDIES PROTOCOL REVIEW OTHER (SPECIFY BELOW): III. BIOPELARMACEUTICS PROTOCOL BIOPHARMACEUTICS PROTOCOL BI	DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION			F	REQUEST FOR CO	ONSULTATION	
DATE OF DOCUMENT 21-077 Proposed name 3-24-99 NAME OF DRUG SPECIAL DATE OF DOCUMENT 3-24-99 NAME OF PRIM: GlaxO Wellcome REASON FOR REQUEST 1. GENERAL NEW PROTOCOL PROGRESS REPORT PROGRESS REPORT PROGRESS REPORT PROGRESS REPORT AMUNICATION REPORT AND PRESIDENTISMO SAPETY/PEPECACY ADVERSE REACTION REPORT AMUNICACTURING CHANGE/ADDITION MEETING PLANNED BY II. BIOMETRICS STATISTICAL EVALUATION BRANCH TYPE A OR B NOA REVIEW PROTOCOL BY PLANNED BY III. BIOMETRICS STATISTICAL EVALUATION BRANCH TYPE A OR B NOA REVIEW PROTOCOL BY PROTOCOL OTHER (SPECIFY BELOW): III. BIOPERABMACEUTICS OTHER (SPECIFY BELOW): III. BIOPERABMACEUTICS DISSOLUTION DIS	TO (Division/Office):	-	<u></u>	* * * * * * * * * * * * * * * * * * * 		- w-9	
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V. SCIENTIFIC INVESTIGATIONS CLINICAL COMMENTS/SPECIAL INSTRUCTIONS: The due date for this NDA is January 25, 2000 Please call Parinda Jani at 7-1064 or Cathle Schumaker at 7-1050 for additional information. Thanks cc: orig nda 21-077/div file HFD-570/ HFD-570 Schumaker, Poochikian, Koble Jani SIGNATURE OF RECEIVER METHOD OF DELIVERY (Check one) MAIL HAND SIGNATURE OF RECEIVER					POISON RICK ANALISIS		
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CONSULTATION RESPONSE Office of Post-Marketing Drug Risk Assessment (OPDRA; HFD-400)

DATE RECEIVED: January 11, 2000

DUE DATE: January 21, 2000

OPDRA CONSULT #: 00-010

TO:

Robert J. Meyer, M.D.

Director, Division of Pulmonary and Allergy Drug Products

HFD-570

PRODUCT NAME: Advair™ Diskus®

(salmeterol xinafoate/fluticasone propionate inhalation powder)

MANUFACTURER: Glaxo Wellcome, Inc.

Research Triangle Park, NC 27709

NDA #: 21-077

CASE REPORT NUMBER(S): Not applicable.

3UMMARY: In response to a consult from the Division of Pulmonary and Allergy Drug Products (HFD-570), OPDRA conducted a reassessment of the proposed proprietary name "Advair Diskus" to determine the potential for confusion with approved proprietary and generic names as well as pending names.

OPDRA RECOMMENDATION: From a safety perspective, OPDRA does not object to the use of the name Advair, with a specific recommendation for designation of multiple strengths of this combination product. The established name of this product should be revised to comply with the USP/NF standards. We also have made a number of recommendations for labeling revisions to minimize potential errors with the use of this product.

Jerry Phillips, R.Ph.

Associate Director for Medication Error Prevention Office of Post-Marketing Drug Risk Assessment

Phone: (301) 827-3246 Fax: (301) 480-8173

Perer Honig, M.D.

Deputy Director

Office of Post-Marketing Drug Risk Assessment

Center for Drug Evaluation and Research

Food and Drug Administration

PRE-NDA MEETING END OF PHASE II M RESUBMISSION SAPETY/EFFICACY PAPER NDA CONTROL SUPPLEM	EETING FINA LABE ORIG FORE EENT x OTE	DATE OF DOCUMENT 3-24-99 DESIRED COMPLETION January 21, 2000 ONSE TO DEFICIENCY LETTER L PRINTED LABELING LING REVISION INAL NEW CORRESPONDENCE IULATIVE REVIEW ER (SPECIFY BELOW): CAL APPLICATION BRANCH
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	OTHER (SPECIFY BELOW):	
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III. Blo	PHARMACEUTICS	
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IV. DR		<u> </u>
PROTOCOL	REVIEW OF MARKETING I	EXPERIENCE, DRUG USE AND S
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į

DATE	August 24, 2000		TOTAL PAGES
То	Ms. Parinda Jani Food and Drug Administration	FAX PHONE	(301) 480-5683 (301) 827-1064
FROM	Ms. Joy E. Ferrell		(919) 315 0033 (919) 483-5211

Re:

NDA 21-077; ADVAIRTM DISKUS® (fluticasone propionate/salmeterol inhalation powder) 100/50 mcg, 250/50 mcg and 500/50 mcg
Response to FDA Request/Comment

Parinda.

Phase IV Commitment

The following is provided in reference to our teleconference on August 16, and follow-up conversation on August 23, 2000.

Glaxo Wellcome agrees to a Phase IV commitment to provide the Agency a summary of the existing pharmacokinetics and pharmacodynamic data on fluticasone propionate in patients with asthma to place in context the apparent gender effects that were observed in the Study SECB3019. In the event the available data are inadequate to determine if a gender effect does or does not exist, Glaxo Wellcome agrees to conduct a clinical pharmacology trial to examine the pharmacokinetics and pharmacodynamic effect of fluticasone propionate administration to male and female asthma patients in an attempt to more definitively assess for gender effects. We will discuss protocol design with the Division prior to initiation of the trial. In the event we need to conduct a study, we anticipate it will take 18-24 months to complete this commitment.

The information contained in these documents is confidential and may also be privileged and is intended for the exclusive use of the addressee designated above. If you are not the addressee any disclosures, reproduction, distribution, or any other dissemination or use of this communication is strictly prohibited. If you have received this transmission in error please contact us immediately by telephone so that we can arrange for its return.

Glaxo Wellcome Inc.

U. S. Regulatory Affairs

Phone

919-483-2100

Patent Information

Amendment to Item 13 of NDA 21-077 Pursuant to 21 C.F.R. § 314.53

for ADVAIR™ DISKUS[®] Inhalation Powder

The following is provided in accord with the Drug Price Competition and Patent Term Restoration Act of 1984:

Trade Name:

ADVAIR™ Diskus®

Active Ingredient:

salmeterol xinafoate/fluticasone propionate

Strengths:

salmeterol xinafoate/fluticasone propionate 50mcg/100mcg

salmeterol xinafoate/fluticasone propionate 50mcg/250mcg

salmeterol xinafoate/fluticasone propionate 50mcg/500mcg

Dosage Form:

inhalation powder

Route of Administration:

oral inhalation

Please do not list the following (previously submitted) patents in the U.S. Department of Health and Human Services "Orange Book" of Approved Drug Products.

	US Patent Number	Expiration Date	Form of Patent Claims
1	5,380,922	10 January, 2012	Drug Product/Process of Production
2	D 342,994	4 January, 2008	Product Administration System
3	5,860,419	1 March, 2011	Product Administration System
4	5,590,645	1 March, 2011	Product Administration System
5	5,873,360	23 February, 2016	Product Administration System

Please <u>list</u> the following patents in the U.S. Department of Health and Human Services "Orange Book" of Approved Drug Products.

	US Patent Number	Expiration Date	Form of Patent Claims
1	4,992,474	12 February, 2008	Drug Substance
			Method of Use
2	5,225,445	12 February, 2008	Method of Use
3	5,126,375	12 February, 2008	Drug Substance
			Drug Product
4	4,335,121	14 November, 2003	Drug Substance
5	5,270,305	7 September, 2010	Drug Substance

The undersigned declares the following:

- 1) All of the above patents are owned by Glaxo Group Limited.
- 2) The United States Agent for Glaxo Group Limited is Glaxo Wellcome Inc.
- The above Patents (4,335,121; 4,992,474; 5,225,445; 5,126,375 and 5,270,305) are required to be the subject of a submission of information pursuant to 21 C.F.R. §314.53(b), and meet the criteria for submission therein.
- The above Patents (4,335,121; 4,992,474; 5,225,445; 5,126,375 and 5,270,305) cover the formulation, composition, and/or method of use of ADVAIR™ DISKUS[©].

Please address all communications regarding the patent property of this NDA to:

David J. Levy
Vice President, Intellectual Property Counsel
Glaxo Wellcome Inc.
Intellectual Property Department
Five Moore Drive
Research Triangle Park, NC 27709
919/ 483-2723

Respectfully submitted

Date: 30 November, 1999

Charles Dadswell
Assistant Intellectual Property Counsel
Glaxo Wellcome Inc.
Registered Patent Attorney
Registration No. 35,851

APPEARS THIS WAY ON ORIGINAL

Patent Information

Pursuant to 21 C.F.R. § 314.53

for

ADVAIR™ Diskus® Inhalation Powder

ADVAIR™ Diskus® inhalation powder 50mcg/100mcg · ADVAIR™ Diskus® inhalation powder 50mcg/250mcg ADVAIR™ Diskus® inhalation powder 50mcg/500mcg

Item 13 of NDA 21-077

The following is provided in accord with the Drug Price Competition and Patent Term Restoration Act of 1984:

Trade Name:

ADVAIR™ Diskus®

Active Ingredient:

salmeterol xinafoate/fluticasone propionate

Strengths:

salmeterol xinafoate/fluticasone propionate 50mcg/100mcg salmeterol xinafoate/fluticasone propionate 50mcg/250mcg

salmeterol xinafoate/fluticasone propionate 50mcg/500mcg

Dosage Form:

inhalation powder

	US Patent Number	Expiration Date	Form of Patent Claims
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3	5,380,922	10 January, 2012	Drug Product/Process of Production
4	5,126,375	12 February, 2008	Drug Product and
	e		Compositions Thereof
5	D 342,994	4 January, 2008	Product Administration System
6	4,335,121	14 November, 2003	Drug Product
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The undersigned declares the following:

- 1) All of the above patents are owned by Glaxo Group Limited.
- 2) The United States Agent for all the above patents is Glaxo Wellcome Inc.

Please address all communications regarding the patent property of this NDA to:

David J. Levy
Vice President, Intellectual Property Counsel
Glaxo Wellcome Inc.
Intellectual Property Department
Five Moore Drive
Research Triangle Park, NC 27709
(919) 483-2723

Respectfully submitte

Date: 23 March, 1999

Charles Dadswell
Assistant Intellectual Property Counsel
Glaxo Wellcome Inc.
Registered Patent Attorney
Registration No. 35,851

APPEARS THIS WAY ON ORIGINAL

EXCLUSIVIT	TY SUMMARY FOR NDA # 21-077 SUPPL #	
Trade Name: Generic Name	ADVAIR DISKUS 100/50, 250/50 and 500/50 fluticasone propionate 100 mcg and salmeterol 50 mcg fluticasone propionate 250 mcg and salmeterol 50 mcg fluticasone propionate 500 mcg and salmeterol 50 mcg	
Applicant Na	me Glaxo Wellcome HFD # 570	
Approval Dat	e If Known August 25, 2000	
PART I:	IS AN EXCLUSIVITY DETERMINATION NEEDED?	
certain supple	clusivity determination will be made for all original applications, but only for ments. Complete PARTS II and III of this Exclusivity Summary only if you to one or more of the following question about the submission.	
a)	Is it an original NDA?	Ī
	YES / <u>X</u> / NO//	
b)	Is it an effectiveness supplement?	<i>Z</i>
_	YES // NO/ <u>X</u> /	
	If yes, what type? (SE1, SE2, etc.)	
_	Did it require the review of clinical data other than to support a safety claim or e in labeling related to safety? (If it required review only of bioavailability or nivalence data, answer "no.")	
	YES /_X_/ NO //	
therefore include	r answer is "no" because you believe the study is a bioavailability study and, ore, not eligible for exclusivity, EXPLAIN why it is a bioavailability study, ling your reasons for disagreeing with any arguments made by the applicant that the was not simply a bioavailability study.	e
	a supplement requiring the review of clinical data but it is not an effectiveness ement, describe the change or claim that is supported by the clinical data:	

NDA	21-077/Exc	lusivity	Summary
Page :	2		

d)	Did the applicant request exclusivity?
	YES L X NO //
If the	answer to (d) is "yes," how many years of exclusivity did the applicant request? 3 years
e)	Has pediatric exclusivity been granted for this Active Moiety?
	NO
	VE ANSWERED "NO" TO <u>ALL</u> OF THE ABOVE QUESTIONS, GO DIRECTLY ENATURE BLOCKS ON PAGE 8.
administratio	product with the same active ingredient(s), dosage form, strength, route of on, and dosing schedule, previously been approved by FDA for the same use? (Rx to es should be answered NO-please indicate as such)
	YES // NO /_X_/
If yes, NDA	# Drug Name
IF THE ANS	WER TO QUESTION 2 IS "YES," GO DIRECTLY TO THE SIGNATURE N PAGE 8.
3. Is this	s drug product or indication a DESI upgrade?
	YES // NO /_X/
	SWER TO QUESTION 3 IS "YES," GO DIRECTLY TO THE SIGNATURE N PAGE 8 (even if a study was required for the upgrade).
PART II FI	VE-YEAR EXCLUSIVITY FOR NEW CHEMICAL ENTITIES

(Answer either #1 or #2 as appropriate)

1. Single active ingredient product.

Has FDA previously approved under section 505 of the Act any drug product containing the same active moiety as the drug under consideration? Answer "yes" if the active moiety (including other esterified forms, salts, complexes, chelates or clathrates) has been previously approved, but this particular form of the active moiety, e.g., this particular ester or salt (including salts with hydrogen or coordination bonding) or other non-covalent derivative (such as a complex, chelate, or clathrate) has not been approved. Answer "no" if the compound requires metabolic conversion (other than deesterification of an esterified form of the drug) to produce an already approved active moiety.

NDA	21-077/Exclusivity	Summary
Page .	3	

	YES //	NO //		
If "yes," id NDA #(s).	· · · · · · · · · · · · · · · · · · ·	drug product(s) containing	the active moiety, and, if kno	own, the
NDA #(5).			- ·	

2. <u>Combination product</u>.

NDA#

If the product contains more than one active moiety(as defined in Part II, #1), has FDA previously approved an application under section 505 containing any one of the active moieties in the drug product? If, for example, the combination contains one never-before-approved active moiety and one previously approved active moiety, answer "yes." (An active moiety that is marketed under an OTC monograph, but that was never approved under an NDA, is considered not previously approved.)

YES	/	X	1	NO / /
	_	_	_	

If "yes," identify the approved drug product(s) containing the active moiety, and, if known, the NDA #(s).

NDA# <u>20-236</u>	Serevent Inhalation Aerosol
NDA# <u>20-692</u>	_Serevent Diskus
NDA# _ <u>19-957</u>	Cutivate Cream
NDA# <u>19-958</u>	Cutivate Ointment
NDA# <u>20-121</u>	Flonase Nasal Spray
NDA# <u>20-548</u>	Flovent Inhalation Aerosol
NDA# 20-549	Flovent Rotadisk

IF THE ANSWER TO QUESTION 1 OR 2 UNDER PART II IS "NO," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8. IF "YES" GO TO PART III.

PART III THREE-YEAR EXCLUSIVITY FOR NDA'S AND SUPPLEMENTS

To qualify for three years of exclusivity, an application or supplement must contain "reports of new clinical investigations (other than bioavailability studies) essential to the approval of the application and conducted or sponsored by the applicant." This section should be completed only if the answer to PART II, Question 1 or 2 was "yes."

If yes, explain:

"clinical invess studies.) If the to clinical investors answer to 3(a)	stigations" to mean inve e application contains of estigations in another a	reports of clinical investigations estigations conducted on human clinical investigations only by v pplication, answer "yes," then s igation referred to in another aptigation.	is other than bioavailability irtue of a right of reference kip to question 3(a). If the
	YES /_X_/	NO //	•**
IF "NO," GO	DIRECTLY TO THE	SIGNATURE BLOCKS ON PA	AGE 8.
approved the a investigation in the supplement than clinical to approval as an previously approved or a would have be clinical investigation (a) conducted or a conducted o	application or supplements not essential to the application in light rials, such as bioavailable ANDA or 505(b)(2) a proved product), or 2) to sponsored by the application submitted in the In light of previously cted by the applicant or	sential to the approval" if the A ent without relying on that investigation of previously approved applications because of what is althere are published reports of stream) or other publicly available approval of the application, we application. approved applications, is a climic available from some other sound approval of the application of the applica	stigation. Thus, the sation is necessary to support ations (i.e., information other o provide a basis for tready known about a udies (other than those data that independently ithout reference to the
	YES /_X_/	NO //	
		ur conclusion that a clinical trial LY TO SIGNATURE BLOCK	
	veness of this drug pro	mit a list of published studies re duct and a statement that the pu proval of the application?	•
	YES / /	NO / X /	
·		to 2(b) is "yes," do you personal licant's conclusion? If not appli	
	VFS / /	NO / Y /	

	(2) If the answer to conducted or sponsore could independently deproduct?	ed by the ap	plicant or o	ther publicly	available da	ita that
	YES //	NO /_X_/				
If yes,	, explain:		·.'		•••	•
(c) invest	If the answers to (b)(1 igations submitted in th					l
Studie	es SFCA 3002, SFCA 3	3003 and S	FCB 3019		•	
_	aring two products with purpose of this section		ingredient(s)	are consider	ed to be bio	availability
agency interpronunce on by the agerication and agency to den redemonstrate application.	lition to being essential, rets "new clinical inves ncy to demonstrate the d 2) does not duplicate the monstrate the effectiven e something the agency For each investigation	tigation" to effectivene the results of ess of a pro- considers of identified	o mean an invess of a previously appreviously appreviously appreviously as "essential"	vestigation the ously approvestigation the roved drug produced drug produced drug produced drug produced drug produced to the approvention of the demonstrate drug produced drug produce	nat 1) has no red drug for nat was relie roduct, i.e., o d in an alrea val," has the	t been relied any ed on by the does not ady approved
previo	igation been relied on bously approved drug pro of a previously approve	duct? (If t	he investigat			
Invest	igation #1 Study SFCA	3002 YI	ES //	NO /	<u>X</u> /	
Invest	igation #2 Study SFCA	. 3003 YI	ES //	NO/	<u>X</u> /	
Invest	igation #3 Study SFCB	3019 YI	ES //	NO/	_X_/	
	have answered "yes" for igation and the NDA in				fy each such	1
			•		•	
	For each investigation igation duplicate the resy to support the effective	sults of and	ther investig	gation that wa	as relied on l	

	Investigation#1 Study	SFCA 3002	YES /_	/	NO./ <u>X</u> ./	•
	Investigation #2 Study	SFCA 3003	YES /_	/	NO / <u>X</u> /	
	Investigation #3 Study	SFCB 3019	YES/_	/	NO / <u>X</u> -/	
	If you have answered "similar investigation was		or more	investigation, i	dentify the l	NDA in which a
	c) If the answers to application or supplement #2(c), less any that are	ent that is esse	•	•		_
	SFCA 3002	·	SFCA	3003		
	SFCB 3019					. •
sponso was the applica	To be eligible for exclusion conducted or sponsor ored by" the applicant if, e sponsor of the IND nation (or its predecessor in the intial support will mean properties.	bred by the ap before or dur med in the for interest) prov	plicant. ing the rm FDA vided su	An investigat conduct of the 1571 filed with bstantial suppo	ion was "con investigation th the Agence ort for the str	nducted or n, 1) the applicant sy, or 2) the ady. Ordinarily,
	a) For each investi was carried out under a sponsor?					the investigation 1571 as the
	Investigation #1					
	IND #	YES / <u>X</u> _/		NO //`		
	Investigation #2	-				
	IND #	YES / <u>X</u> /		NO //		
	Investigation #3		•		-	
	IND #	YES / <u>X</u> _/		NO //		

predecessor in interes	st provided sub	stantial support for	the study?	
Investigation #1			•	.•
YES // Explain		NO // Explain	•••	
Investigation #2			o • ,	
YES // Explain		NO // Explain		
(c) Notwithstand that the applicant sho (Purchased studies m the drug are purchase have sponsored or co interest.)	ould not be creed ay not be used ed (not just stud	lited with having "co as the basis for exc dies on the drug), the	onducted or s lusivity. How e applicant m	vever, if all rights to ay be considered to
YES //	NO /_X/			
If yes, explain:				
ature/ Title/Date	~	geet Mana		
ature of Office Division	Director/Date	THEORY DINDI	8/24	400
inal NDA/21-077 sion File/HFD-570 0-570/Jani 0-93/Mary Ann Holovac			_	-

(b) For each investigation not carried out under an IND or for which the applicant was not identified as the sponsor, did the applicant certify that it or the applicant's

III. Marketing Exclusivity

NDA 21-077

Salmeterol/Fluticasone propionate Diskus Inhalation Powder

Request for Marketing Exclusivity

Pursuant to Section 505(c)(3)(D)(iii) and 505(j) (5)(D)(iii) of the Federal Food, Drug, and Cosmetic Act and Section 314.108(b)(4) of Title 21 of the Code of Federal Regulations, Glaxo Wellcome Inc. requests three years of exclusivity from the date of approval of salmeterol/fluticasone propionate Diskus inhalation powder 50/100mcg, 50/250mcg, and 50/500mcg for the maintenance treatment of asthma in patients 12 years of age and older.

Glaxo Wellcome Inc. is entitled to such exclusivity as this application contains reports of new clinical investigations (other than bioavailability studies) essential to the approval of the application and conducted or sponsored by Glaxo Wellcome Inc. The following investigations are "essential to the approval of the application" in that the application could not be approved by FDA without the following investigations:

Indication - Maintenance treatment of asthma — in patients 12 years of age and older

RM1997/00600/02. A Randomized, Double-Blind, Parallel-Group Trial Evaluating the Safety and Efficacy of Salmeterol 50mcg BID and Fluticasone Propionate 100mcg BID Individually and in Combination and Placebo in Subjects with Asthma (Study No. SFCA3002)

RM1997/00624/02. A Randomized, Double-Blind, Parallel-Group Trial Evaluating the Safety and Efficacy of Salmeterol 50mcg BID and Fluticasone Propionate 250mcg BID Individually and in Combination and Placebo in Subjects with Asthma (Study No. SFCA3003)

GM1998/00018/00. A Multicenter, Randomized,
Double-Blind, Double-Dummy, Parallel-Group
Comparison of the Salmeterol/Fluticasone Propionate
Combination Product (50/500mcg strength) BD via one
Diskus/Accuhaler Inhaler with Salmeterol 50mcg BD via
one Diskus/Accuhaler Inhaler and Fluticasone Propionate
500mcg BD via another Diskus/Accuhaler Inhaler and
with Fluticasone Propionate 500mcg BD via one
Diskus/Accuhaler Inhaler in Adolescents and Adults with
Reversible Airways Obstruction (Study No. SFCB3019)

To the best of Glaxo Wellcome Inc.'s knowledge, and based on a thorough literature search, there are no other published studies or publicly available reports that are relevant to the proposed formulations or conditions of use.

To the best of Glaxo Wellcome Inc.'s knowledge, the above-referenced clinical investigations are "new" in that they have not been relied on by the FDA to demonstrate substantial evidence of effectiveness of a previously approved drug product for any indication or of safety for a new patient population and do not duplicate the results of any such investigations.

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C. Elaine Jones, Ph.D Product Director, Regulatory Affairs

APPEARS THIS WAY ON ORIGINAL

NDA 21-077

Salmeterol/fluticasone propionate Diskus Inhaler

DEBARMENT CERTIFICATION

Glaxo Wellcome hereby certifies that it did not and will not use in any capacity the services of any person debarred under section 306 of the Federal Food, Drug and Cosmetic Act in connection with this application.

Charles E. Mueller

Head, Clinical Compliance

World Wide Compliance

23 FEB 99

Date

APPEARS THIS WAY ON ORIGINAL

FINANCIAL DISLCOSURE AS TO CLINICAL INVESTIGATORS

Salmeterol/Fluticasone Propionate Diskus Inhalation Powder

NDA 21-077

In compliance with the Final Rule on Financial Disclosure by Clinical Investigators published on February 2, 1998 (63 FR 5233), as subsequently revised by publication on December 31, 1998 (63 FR 72171) (hereafter collectively referred to as the "rule"), financial interest information is provided for clinical investigators participating in studies covered by this Final Rule included in New Drug Application 21-077 for Salmeterol/Fluticasone Propionate Discus Inhalation Powder for the maintenance treatment of asthma in patients 12 years of age and older. The following synopsis includes a description of methods used for the collection and reporting of the investigator financial disclosure information. Form FDA 3454 (Certification: Financial Interests and Arrangements of Clinical Investigators) and supporting tables can be found in Item 19 (Vol. 175, Page 1).

The following is the list of "covered clinical studies" for purposes of the rule; as to each, Glaxo Wellcome was the sponsor:

APPEARS THIS WAY
ON ORIGINAL

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PROTOCOL NO.	PROTOCOL TITLE	STUDY START DATE	STOP DATE
SFCA3002	A Bandomized, Double-Blind, Parallel-Group Trial Evaluating the Safety and Efficacy of Salmeterol 50mcg BID and Fluticasone Propionate 100mcg BID Individually and in Combination and Placebo in Subjects with Asthma	06AUG96	15JUL97
SFCA3003	A Randomized, Double-Blind, Parallel-Group Trial Evaluating the Safety and Efficacy of Salmeterol 50mcg BID and Fluticasone Propionate 250mcg BID Individually and in Combination and Placebo in Subjects with Asthma	06AUG96	15JUL97
SFCB3017 .	A Multicenter, Randomized, Double-Blind, Double-Dummy, Parallel-Group Comparison of the Salmetero/Fluticasone Propionate Combination Product (50/100mcg strength) BD via one Diskus/Accuhaler Inhaler with Salmeterol 50mcg BD via one Diskus/Accuhaler Inhaler and Fluticasone Propionate 100mcg BD via a Second Diskus/Accuhaler Inhaler in Adolescent and Adults with Reversible Airways Obstruction	17,101,95	09MAY97
SFCB3018	A Multicenter, Randomized, Double-Blind, Double-Dummy, Parallel-Group, Six Month Comparison of the Salmeterol/Fluticasone Propionate Combination Product (50/250mcg strength) BD via one Diskus/Accuhaler Inhaler with Salmeterol 50mcg BD via one Diskus/Accuhaler Inhaler and Fluticasone Propionate 250mcg BD via a Second Diskus/Accuhaler Inhaler in Adolescents and Adults with Reversible Airways Obstruction	03JUL96	23JUL97
SFCB3019	A Multicenter, Randomized, Double-Blind, Double-Dummy, Parallel-Group Comparison of the Salmeterol/Fluticasone Propionate Combination Product (50/500mcg strength) BD via one Diskus/Accuhaler Inhaler with Salmeterol 50mcg BD via one Diskus/Accuhaler Inhaler and Fluticasone Propionate 500mcg BD via another Diskus/Accuhaler Inhaler and with Fluticasone Propionate 500mcg BD via one Diskus/Accuhaler Inhaler in Adolescents and Adults with Reversible Airways Obstruction	31MAY96	10NOV97-
SFCB3020	A Multicentre, Randomized, Double-Blind, Double-Dummy, Parallel-Group Comparison of the Salmeterol/Fluticasone Propionate Combination Product (50/100mcg strength) BD via One Diskus/Accuhaler Inhaler with Salmeterol 50mcg BD via One Diskus/Accuhaler Inhaler and Fluticasone Propionate 100mcg BD via a Second Diskus/Accuhaler Inhaler in Children Aged 4-11 Years With Reversible Airways Obstruction	11NOV96	10SEP97
SFCB1001	A Study to Evaluate the Safety, Tolerability and Systemic Pharmacodynamic Effects of Salmeterol in the Salmeterol/Fluticasone Propionate Diskus Inhaler	10APR95	23MAY95
SFCB1002	A Study to Evaluate the Safety, Tolerability, Pharmacokinetics and Systemic Pharmacodynamic Effects of Fluticasone Propionate in the Salmeterol/Fluticasone Propionate Diskus Inhaler	26APR95	07JUN95
SFCB1004	The Systemic Pharmacodynamic Effects and Pharmacokinetics of Salmeterol and Fluticasone Propionate When Given Alone and in Combination, After Repeat Dosing from Diskus Inhalers in Healthy Volunteers	04MAY96	08AUG96
SFCB1005	The Systemic Pharmacodynamic Effects and Pharmacokinetics of Salmeterol and Fluticasone Propionate When Given Together from Efficer a Single or Two Separate Diskus Inhalers, in Single Doses	31OCT96	04DEC96
C92-029	A Study to Evaluate the Safety, Tolerability and Systemic Pharmacodynamic Effects of Salmeterol in the Salmeterol/Fluticasone Propionate Inhaler	03NOV93	21DEC93

Note: To arrive at the above-noted study "start" and "stop" dates, Glaxo Wellcome has defined the duration of the clinical study as the time period beginning with the first patient entered into the clinical study until the last patient assessment at the last site.

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<u>Division Director's Memorandum</u> <u>Addendum</u>

Date:

Wednesday, August 23, 2000

NDA:

21-077

Sponsor:

Glaxo Wellcome

Proprietary Name:

ADVAIR Diskus (fluticasone propionate and salmeterol

xinaphoate inhalation powder).

<u>Introduction</u>: This action is taken on a resubmission by GlaxoWellcome in response to an approvable letter of January 27, 2000. The sponsor has satisfactorily answered the concerns and information requests contained in that letter and the NDA will now be approved, once final labeling and documentation are received from the company.

Administrative: The resubmission by GlaxoWellcome was received on February 25, 2000 and, as a substantive, class II resubmission, has a 6-month PDUFA due date of August 25, 2000. Note that although not included in the last Director's Memo, there are no financial disclosure issues with this NDA, as the sponsor has certified that all covered studies were completed prior to Feb. 2, 1999.

Chemistry/Manufacturing and Controls: See Dr. Koble's additional review for details. The CMC issues raised in our previous action letter were satisfactorily addressed and the product will be approved.

the out-of-pouch stability appears to be 1 month – which is the expected usage time for any single Diskus device (i.e., 60 doses, with dosing = 1 actuation inhaled twice daily, lasting for 30 days).

<u>Pharmacology/Toxicology:</u> No substantive issues (apart from labeling) have been raised in this review cycle.

Biopharmaceutics: One issue that came out of the labeling review is that the PK data provided to investigate the presence or absence of a PK drug-drug interaction between fluticasone and salmeterol showed an apparent gender effect for fluticasone in all arms of the study (i.e., fluticasone alone, and in the combination/concurrent arms). These studies involved a relatively small number of women and stand in contradistinction to all other fluticasone studies, which have not shown such an effect. The sponsor will be asked for a phase 4 commitment to provide further formal data in patients to define whether a gender effect does exist with fluticasone.

Clinical / Statistical: Dr. Johnson's primary review of the safety update does not reveal any new concerns about the safety of this product. Additionally, an accounting of device robustness in actual use shows a very small consumer complaint rate for this product in countries where it is approved, supporting the ruggedness of the device.

EER: There are acceptable EERs for all the sites involved in the production and testing of this product and its components, with acceptable recommendations generated from June 1999 – January of 2000, and reconfirmed in this review cycle.

<u>Labeling/Nomenclature</u>: OPDRA consultation was received in the last cycle and their comments were reflected in the previous letter and subsequent labeling negotiations

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Otherwise, acceptable labeling has been achieved. The indication has been n	nade more
general and in line with other asthma maintenance therapies, with the details	of the
appropriate population discussed in the Dosage and Administration Section.	The sponsor
wanted explicit recommendations for	but
have not provided data to support these patients	
therapy, so this wording was not allowed.	

Conclusions: This NDA should be approved once all administrative and review issues are finalized (we are awaiting final Master Batch Records, final labeling and carton/container labeling). The sole phase 4 commitment from a clinical standpoint is to resolve the gender interaction issue for fluticasone.

Robert & Meyer, MD/ 8/23/00 Director, Division of Pulmonary and Allergy Drug Products.

APPEARS THIS WAY ON ORIGINAL

Division Director's Memorandum

Date: Thursday, January 27, 2000

NDA: ___ 21-077

Sponsor: Glaxo Wellcome

Proprietary Name: ADVAIR Diskus (fluticasone propionate/salmeterol xinaphoate

inhalation powder).

Introduction: This is a new NDA submitted on March 25th, 1999 to support a line of combination inhalers (Diskus devices – a 60-dose dry powder inhaler) that provide salmeterol xinaphoate 50 mcg (expressed as the base) and either 100, 250 or 500 mcg of fluticasone proprionate in a lactose — While the Flovent Diskus is approvable and the Serevent Diskus is approved, this is a novel product, being the first fixed-dose combination inhalation product for asthma, combining a long-acting bronchodilator and an inhaled corticosteroid for US marketing.

The division had extensive discussions with the company on the development of this line of related products DPADP expressed a number of concerns for such a combination. These concerns included there would need to be a showing for a new combination drug product that it meets the combination regulations (i.e., that both components add to the overall safety and/or efficacy of the combination in a meaningful way). Specific to this line of products and asthma therapy, DPADP expressed concerns about the medical rationale for a fixed combination product for that includes a medication that is commonly and correctly titrated (fluticasone). As a part of developmental discussions, DPADP encouraged the sponsor to submit the 500 mcg product for approval, even though it has no 1:1 fluticasone counterpart and no US studies to support it, to allow more prescribing flexibility to the care-giver in assuring that patient needs are met. It should be noted that since the division did not feel like the long-term safety of the combination products was of particular concern (due to the combination product containing two approved moieties and utilizing lactose and an approved device), the program did not include a long-term, openlabel safety study.

Administrative: Three issues bear noting. First, the sponsor asked for a "priority" review status for this application. Since the combination product offers nothing that is not currently obtainable in the U.S. market (i.e., both substances are in currently approved US products) and since the sponsor did not provide evidence to substantiate that there would be better compliance with the combination product, this request was denied by the division with Office concurrence (Dr. Jenkins). Secondly, this application was discussed at a meeting of the Pulmonary and Allergy Drugs Advisory Committee in November 1999, due to the novel nature of this combination product. The committee recommended approval and, despite some advice on labeling particulars and other issues, did not express any substantive concerns about the potential misuse or misunderstanding of this product in general clinical use. Thirdly, this application's 10-month PDUFA goal date was January 25, 2000. However, due to a government shutdown on January 25th and 26th due to inclement weather, the action was delayed until the 27th. It is expected,

however, that due to the unavoidable loss of two days, the action will still be counted as a "10-month" action for PDUFA tracking purposes.

<u>Chemistry/Munufacturing and Controls</u>: See Dr. Koble's review for details. There are remaining CMC issues that preclude approval this cycle, although many appear to be resolvable in the near-term. Not surprisingly, many of these issues are common to other Diskus products, particularly the Flovent Diskus products that are not yet approved again due mainly to CMC considerations.

Pharmacology/Toxicology: Due to this product containing two approved drug substances in a combination that is fairly common clinically (albeit separately administered), there are relatively few unique toxicology issues for this product. The sponsor has satisfactorily addressed the specific combination preclinically and, except for some changes to the proposed package insert, the product is approvable from the Pharm/Tox standpoint.

Biopharmaceutics: The main thrust of the biopharmaceutics program for this product was to assure that the two drugs given together did not significantly interact. The data provided suggest that there is no significant change in the ADME of either drug substance due to the concomitant presence of the other. While not a strict interaction concern, study 3019 did show that the FP exposure from the ADVAIR product (50/500) was somewhat less than that of the Flovent product alone. However, this was not accompanied by any perceivable decrease in efficacy, as the numerical trends favored the combination product on many efficacy measures. There was an apparent gender effect in this same study (males with lower FP exposures than females) but this may well be due to disparate baseline lung function. The sponsor has previously shown that FP exposure from the Flovent products is related to lung function (higher exposures in normals than asthmatics) and the males in 3019 had lower mean baseline FEV1s.

Clinical / Statistical: See Dr. Johnson's primary review and Dr. Elashoff's primary statistical reviews for details. Two of the three most important studies were conducted in the US (Studies 3002 and 3003) and one of them was conducted outside the US (3019). The US studies examined the 50/100 (salmeterol/FP) product and the 50/250 product against each of their respective components administered alone (i.e., Flovent Diskus at the relevant dose and Serevent Diskus) as well as placebo. This design allowed for an assessment of ADVAIR over each component given alone. The replication of the "combination policy" was provided by these two studies. The third study – 3019 – was performed outside the US and compared the 50/500 product against the two single components given-together (i.e., Flovent Diskus AND Serevent Diskus), as well as Flovent alone. It did not examine the safety and efficacy of this strength product against salmeterol alone and, given the severity of asthma in these subjects, that is justifiable.

Studies 3002 (in relatively mild-moderate asthmatics) and study 3003 (in somewhat more severe patients) were designed to have a different primary endpoints for the superiority assessment of the combination over each single component comparator (serial FEV₁ against Flovent alone and a.m.trough FEV₁ against salmeterol alone), along with the study "survival" analysis. While it was expected that separate endpoints would be needed for each comparison (e.g., FP vs. Advair, Salmeterol vs. Advair), it turned out that the combination was by and large superior against both single moiety products on <u>all</u>

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of the endpoints. Therefore, the combination of salmeterol and fluticasone in a single product looked more effective than either component given alone on a variety of primary and secondary endpoints. However, in a post-hoc exploratory analysis, it did not appear that patients who came into study 3002 on salmeterol alone did any better on ADVAIR 50/100 than they did "switching" to Flovent 100 mcg alone. This lends some credence to the concern over what population these products should be indicated for treating (e.g., should patients on beta agonists alone be started on Advair?). Study 3019 showed that the combination product worked similarly to the two single moiety products administered concomitantly (with only a slight numerical advantage to the combination product), but in a superior manner to Flovent 500 mcg alone. In none of the studies was there a signal that the safety profile of the combination product was importantly different from the single moiety products. Overall, these studies supported the safety and efficacy of the three dosage strengths of ADVAIR, with the two US studies offering substantial evidence to meet the combination policy of the FDA.

What the program either didn't address, or to some degree couldn't address, was the putative adherence/compliance advantage of the combination products over the single moiety products prescribed concomitantly. Again, study 3019 showed no advantage in a controlled trial of the combination product over concomitant therapy, but since it is a controlled-trial, this was not a study of real world use. In addition, the program did not really address issues of how to best titrate the medication in the face of changing asthma status, particularly how or when to downward titrate. This is an important issue as 500 mcg twice daily of Flovent (as in the highest dose ADVAIR product) can be suppressive of HPA axis function in some individuals.

Nomenclature: The sponsor proposed trade names that

(i.e., ADVAIR — Diskus is used for the product containing 50 mcg salmeterol base and 100 mcg of fluticasone propionate). The established name would include a discussion of the dose per blister of each component. While the trade name of ADVAIR is acceptable to both the division and CDER's nomenclature consultants, there is agency concern over the lack of the _______ being described in the proposed tradename. Disclosing the _______ in the tradename is important for practitioners and patients so that they are aware of the ______ and don't simply double the dose of ADVAIR rather than switch to a higher strength should more fluticasone be needed. Our action letter should express that concern and ask for alternative proposals from the sponsor.

EER: There are acceptable EERs for all the sites involved in the production and testing of this product and its components, with acceptable recommendations generated from June 1999 – January of 2000.

Labeling: There will still need to be significant revisions to the labeling prior to this product being approved, but there are a few labeling issues that will be included in this action – including the naming issue. The clinical trials section is lengthy and promotional in tone and will need significant revisions. DDMAC is consulting on the Patient Package Insert and their comments will be incorporated in final labeling. Further, the sponsor will be asked to achieve common labeling for all the Diskus products to the extent possible, to avoid patient confusion when they are switched from one product to another. Also important in this cycle is the DPADP request that the sponsor better state

the indication to make it less circular (i.e., currently the indication in effect states the combination is indicated for asthmatics for whom combination therapy is appropriate) and more descriptive.

<u>Conclusions</u>: This NDA is approvable, pending resolution of the CMC issues and revision of the proposed labeling. It is anticipated that the remaining issues, though significant, can be resolved in a reasonable time frame as the CMC issues do not appear to necessitate a great deal of further data generation.

Robert J. Meyer, MD Director,

Director, / Division of Pulmonary and Allergy Drug Products.

APPEARS THIS WAY
ON ORIGINAL

INTEROFFICE MEMO

TO:

NDA 21077

FROM:

-- C. Joseph Sun, Ph. D.

SUBJECT:

Team Leader NDA Review Memo

Date:

January 24, 2000

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Jan, 24, 2000

The pharmacology and toxicology of salmeterol xinafoate and fluticasone proprienate and the combination drug have been adequately studied and that the drug is approval from a preclinical standpoint.

Salmeterol is a beta 2 adrenergic agonist. Chronic toxicity studies were performed in rats and dogs. Hypoglycemia, ovarian cysts, leiomyoma, and hyperplasia and metaplasia of the larynx were observed in rats. Typical beta 2 adrenergic agonism effects of hypoglycemia, tarchycardia, vasodilatation and papillary fibrosis were seen in dogs. Fibrosis in the heart was also reported in mice administered orally for 18 months.

Salmeterol did not have any effects on fertility nor caused any teratogenic effects in rats. In Dutch rabbits, it produced teratogenic and developmental effects resulting form its beta-adrenergic activity; these included precocious eyelid openings, cleft palate, sternebral fusion, limb and paw fixtures and delayed ossification of the frontal cranial. However, at a higher oral dose, it caused only delayed ossification of the frontal cranial bones in New Zealand White rabbits. It crossed the placenta in mice.

Salmeterol was not genotoxic in four mutagenicity assays (Ames test, mammalian gene mutation assay in Chinese hamster ovary cells, chromosome aberration in human lymphocytes and in vivo rat micronucleus test).

Carcinogenicity studies of salmetereol were conducted in mice (18 months by oral) and rats (24 month by oral and inhalation). In mice, it caused a dose-related increase in the incidence of smooth muscle hyperplasia, cystic glandular hyperplasia and leiomyomas of the uterus and ovarian cysts. The incidence of leiomyosarcoma was not statistically significant. In rats, similar findings of mesovariun leiomyomas and ovarian cysts were reported. These findings in rodents are typical for beta-adrenergic agonist drugs. The relevance of these findings to human use is unknown.

Fluticasone is a synthetic corticoid with anti-inflammatory activity. Chronic toxicity studies were performed in rats and dogs. Toxicity revealed in both species is typical glucocorticoid activity as evidenced by changes in thymus and adrenal and lymphoid depletion. In rats, keratitis was reported in rats in the 78-week study and 2-year carcinogencity study.

Fluticasone did not impair the fertility in rats. It was teratogenic in mice, rats and rabbits. It excreted in the milk in rats and crossed the placenta in mice, rats and rabbits.

Fluticasone was not genotoxic in four mutagenicity studies (Ames test, forward mutation assay of hamster fibroblast cells, chromosome aberration test of human lymphocytes and in vivo mouse micronucleus test).

Fluticasone demonstrated no carcinogenic potential in a 78-week mouse oral carcinogenicity study and in a 2-year rat inhalation carcinogenicity study.

No unexpected findings other than typical glucocorticoid and beta 2 adrenergic agonism activities were reported in the combination (fluticasone and salmetered) inhalation studies in dogs and rats. Typical teratogenic effects of salmeterol and fluticasone were reported in the combination teratology studies in mice and rats.

With regarding to labeling, carcinogenesis, mutagenesis and impairment of fertility and pregnancy category C sections on the package insert should be revised as recommended in the review to incorporate the above-mentioned preclinical findings.

There is no outstanding preclinical issues.

CC: Orig. NDA HFD-570/Division file HFD-570/Sun HFD-570/Jani HFD-570/Sancilio

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PEDIATRIC PAGE
(Complete for all original application and all efficacy supplements)

NDA/BLA Number:	<u>21077</u>	Trade Name:	ADVAIR DISKUS(SALMETEROL/FLUTICASONE PRO
Supplement Number:		Generic Name:	SALMETEROL/FLUTICASONE PROPIONATE INHALA •
Supplement Type:		Dosage Form:	Powder, Inhalation
Regulatory Action:	<u>AE</u>	Proposed Indication:	for the maintenance treatment of asthma in patients 12 years of age and older.
			IN THIS SUBMISSION? ation, however, plans or ongoing studies exist for pediatric
What are the IN	TENDI	ED Pediatric Ag	ge Groups for this submission?
N	NeoNate	s (0-30 Days)	Children (25 Months-12 years)
		1-24 Months)	Adolescents (13-16 Years)
	•	e Groups (listed)	
Label Adequacy		-	ME pediatric age groups
Formulation Sta	atus]	NO NEW FORM	IULATION is needed
Studies Needed	<u> </u>	STUDIES neede	d. Applicant has COMMITTED to doing them
Study Status]	Protocols are und	ler discussion. Comment attached
Are there any Pedia	tric Pha	se 4 Commitments	in the Action Letter for the Original Submission? NO
COMMENTS: AE letter wa sent 1-2	27-00. Š p	onsor has submitted	"proposed pediatric development plan" for children 4 - 11 years of age
• 7			
	pleted ba	sed on information	from a PROJECT MANAGER/CONSUMER SAFETY OFFICER,
PARINDA JANI	-	_	-
		ñ.	2.3-00
Signature			Date

DEPARTMENT OF HEALTH & HUMAN SERVICES



Food and Drug Administration Rockville MD 20857

Hugh H. Windom, M.D. Asthma and Allergy Research Center 1775 Arlington Street Sarasota, FL 34239 MAR 2 1 2000

Dear Dr. Windom:

Between August 11 and August 17, 1999, Ms. Lourdes Valentin-Aponte, representing the Food and Drug Administration (FDA) inspected your conduct as the investigator of record of a clinical study (protocol #SFCA3003) of the investigational drug Advair Diskus® (salmeterol/fluticasone propionate inhalation powder) that you conducted for Glaxo Wellcome Inc. This inspection is part of FDA's Bioresearch Monitoring Program. This program includes inspections to determine the validity of clinical drug studies that may provide the basis for drug marketing approval and to assure that the rights and welfare of the human subjects who participated in those studies have been protected.

At the close of the inspection, Ms. Valentin-Aponte presented her inspectional observations (Form FDA 483) and discussed these observations with you. From our evaluation of the inspection report and your oral responses to the inspectional observations, we conclude that you did not adhere to all pertinent Federal regulations and/or good clinical investigational practices governing the conduct of clinical investigations and the protection of human subjects. In particular, we note that you failed to maintain adequate Drug Dispensing Records for 3 subjects and adequate records regarding calibration test results for the Spirometer Pulmonary Function Test for 2 subjects.

Please ensure that corrective actions will be taken to prevent similar problems in your current and future studies.

We appreciate the cooperation shown Investigator Ms. Valentin-Aponte during the inspection. Should you have any questions or concerns regarding this letter or the inspection, please contact me by letter at the address given below.

Sincerely yours,

A D. Ph

David A. Lepay, M.D., Ph.D. \
Director
Division of Scientific Investigations
Office of Medical Policy (HFD-45)
Center for Drug Evaluation and Research
7520 Standish Place, Suite 103
Rockville, MD 20855



Food and Drug Administration Rockville MD 20857

Paul Chervinsky, M.D.
New England Research Ctr., Inc.
49 State Road
Wattuppa Bldg., Suite 203
North Dartmouth, MA 02747

nn 2**9** 1939

Dear Dr. Chervinsky:

The purpose of this letter is to inform you of our conclusions concerning your conduct of the clinical study (protocols # SFCA 3002 and SFCA 3003) of salmeterol/fluticasone propionate inhalation powder [AdvairTM Diskus®] that you conducted for Glaxo Wellcome Inc.

From August 31 to September 9, 1999, Ms. Constance DeSimone, representing the Food and Drug Administration (Agency), inspected the study identified above. We reviewed (a) the inspection report prepared by Ms. DeSimone, and (b) copies of study records obtained during the inspection. Based on our review, we conclude that you conducted your studies in compliance with the Federal regulations and good clinical practices that apply to clinical studies of investigational new drugs.

This inspection is part of the Agency's Bioresearch Monitoring Program. This program includes inspections to determine the validity of clinical drug studies that may provide the basis for drug marketing approval and to assure that the rights and welfare of the human subjects who participated in those studies have been protected.

We appreciate the cooperation shown Ms. DeSimone during the inspection. Should you have any questions or concerns regarding this letter or the inspection, please contact me by letter at the address given below.

Sincerely yours,

15

APPEARS THIS WAY ON ORIGINAL

Bette L. Barton, Ph.D., M.D.
Chief
Good Clinical Practices Branch I (HFD-46)
Division of Scientific Investigations
Office of Medical Policy
Center for Drug Evaluation and Research
7520 Standish Place, Room 125
Rockville, MD 20855

INTEROFFICE MEMO

-TO: ----

NDA 21077 --

FROM:

--€. Joseph Sun, Ph. D.

SUBJECT:

Team Leader NDA Review Memo

Date:

January 24, 2000

5/

Jan, 24, 2000

The pharmacology and toxicology of salmeterol xinafoate and fluticasone proprianate and the combination drug have been adequately studied and that the drug is approval from a preclinical standpoint.

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Salmeterol did not have any effects on fertility nor caused any teratogenic effects in rats. In Dutch rabbits, it produced teratogenic and developmental effects resulting form its beta-adrenergic activity; these included precocious eyelid openings, cleft palate, sternebral fusion, limb and paw fixtures and delayed ossification of the frontal cranial. However, at a higher oral dose, it caused only delayed ossification of the frontal cranial bones in New Zealand White rabbits. It crossed the placenta in mice.

Salmeterol was not genotoxic in four mutagenicity assays (Ames test, mammalian gene mutation assay in Chinese hamster ovary cells, chromosome aberration in human lymphocytes and in vivo rat micronucleus test).

Carcinogenicity studies of salmetereol were conducted in mice (18 months by oral) and rats (24 month by oral and inhalation). In mice, it caused a dose-related increase in the incidence of smooth muscle hyperplasia, cystic glandular hyperplasia and leiomyomas of the uterus and ovarian cysts. The incidence of leiomyosarcoma was not statistically significant. In rats, similar findings of mesovariun leiomyomas and ovarian cysts were reported. These findings in rodents are typical for beta-adrenergic agonist drugs. The relevance of these findings to human use is unknown.

Fluticasone is a synthetic corticoid with anti-inflammatory activity. Chronic toxicity studies were performed in rats and dogs. Toxicity revealed in both species is typical glucocorticoid activity as evidenced by changes in thymus and adrenal and lymphoid depletion. In rats, keratitis was reported in rats in the 78-week study and 2-year carcinogencity study.

Fluticasone did not impair the fertility in rats. It was teratogenic in mice, rats and rabbits. It excreted in the milk in rats and crossed the placenta in mice, rats and rabbits.

Fluticasone was not genotoxic in four mutagenicity studies (Ames test, forward mutation assay of hamster-fibroblast cells, chromosome aberration test of human lymphocytes and in vivo mouse micronucleus test).

Fluticasone demonstrated no carcinogenic potential in a 78-week mouse oral carcinogenicity study and in a 2-year rat inhalation carcinogenicity study.

No unexpected findings other than typical glucocorticoid and beta 2 adrenergic agonism activities were reported in the combination (fluticasone and salmeterol) inhalation studies in dogs and rats. Typical teratogenic effects of salmeterol and fluticasone were reported in the combination teratology studies in mice and rats.

With regarding to labeling, carcinogenesis, mutagenesis and impairment of fertility and pregnancy category C sections on the package insert should be revised as recommended in the review to incorporate the above-mentioned preclinical findings.

There is no outstanding preclinical issues.

CC: Orig. NDA HFD-570/Division file HFD-570/Sun HFD-570/Jani HFD-570/Sancilio

APPEARS THIS WAY
ON ORIGINAL

5

FDA CDER EES ESTABLISHMENT EVALUATION REQUEST

DETAIL REPORT

Application: NDA 25-MAR-1999

NDA 21077/000

Action Goal:

District Goal: 26-JUN-2000

Regulatory Due: 25-AUG-2000

PRO

Applicant: GLAXO WELLCOME

Brand Name: ADVAIR

DISKUS (SALMETEROL/FLUTICASONE

5 MOORE DR

RESEARCH TRIANGLE PARK, NC

Estab. Name:

Priority: 27709

Org Code: 45

Generic Name: SALMETEROL/FLUTICASONE

PROPIONATE INHALA

Dosage Form: (AEROSOL)

Strength: 50 UG/100, 250, 500 UG

FDA Contacts: P. JANI

(HFD-570)

301-827-1050 , Project Manager

D. KOBLE

(HFD-570)

301-827-1066, Review Chemist

G. POOCHIKIAN

(HFD-570)

301-827-1050 , Team Leader

Overall Recommendation: ACCEPTABLE on 24-JAN-2000 by M. EGAS (HFD-322) 301-594-0095 ACCEPTABLE on 05-MAY-2000 by M. EGAS (HFD-322) 301-594-0095

Establishment: 9610411

GLAXO OPERATIONS UK LTD

WARE, HERTFORDSHIRE, UK

DMF No:

AADA:

Responsibilities: DRUG SUBSTANCE -

FINISHED DOSAGE MANUFACTURER

Profile:

ADM

OAI Status: NONE

Estab. Comment:

Milestone Name	Date	Req.	TypeInsp. Date	Decision & Reason	Creator
SUBMITTED TO OC	07-JUN-1999				EGASM
SUBMITTED TO DO	07-JUN-1999	10D			EGASM
ASSIGNED INSPECTION	'25-JUN-1999	GMP			EGASM
ASSIGNED INSPECTION	'01-JUL-1999	GMP			RKIMMEL
INSPECTION SCHEDULED	10-NOV-1999		18-NOV-1999		IRIVERA
INSPECTION PERFORMED	17-NOV-1999		17-NOV-1999		IRIVERA
OO RECOMMENDATION	24-JAN-2000			ACCEPTABLE	EGASM
				INSPECTION	
OC RECOMMENDATION	24-JAN-2000			ACCEPTABLE	EGASM
				DISTRICT RECOMMEN	NDATION
SUBMITTED TO OC	04-MAY-2000				KOBLED
SUBMITTED TO DO	04-MAY-2000	10D			EGASM
OO RECOMMENDATION	05-MAY-2000			ACCEPTABLE	EGASM
•				BASED ON FILE REV	/IEW
BASED ON EI ÕF	11/17/99				
C RECOMMENDATION	05-MAY-2000			ACCEPTABLE	EGASM
				DISTRICT RECOMMEN	MOITAD
rofile. CDII	•		ONT Statue.	NONE	

Profile:

CRU

OAI Status: NONE

Estab. Comment: - OF SALMETEROL XIANFOATE AND FLUTICASONE PROPIONATE

(BUILDING A). MANUFACTURE, PACKAGING, AND QUALITY CONTROL OF DRUG

PRODUCT (BUILDINGS U,S, P, AND A). MICROBIOLOGICAL TESING

(BUILDING N10).

STABILITY TESTING IS PERFORMED IN BUILDINGS P AND N10 AT THE PRIORY STREET ADDRESS AND BUILDING 5 AT THE PARK ROAD ADDRESS. (on

28-MAY-1999 by D. KOBLE (HFD-570) 301-827-1066)

Milestone Name	Date	Req.	Type Insp.	Date	Decision & Reaso	n Creator	
SUBMITTED TO OC	06-JUN-1999			-	-	KOBLED	
OC RECOMMENDATION	07-JUN-1999				ACCEPTABLE	EGASM	

FDA CDER EES ESTABLISHMENT EVALUATION REQUEST

DETAIL REPORT

26-JUN-2000

25-AUG-2000

GLAXO WELLCOME

4S 570

Priority: Org Code:

Application Comment: FUR (on 03-MAY-2000 by D. KOBLE (HFD-570) 301-827-1066)

BASED ON PROFILE

KOBLED SUBMITTED TO OC 04-MAY-2000

SUBMITTED TO DO 04-MAY-2000 10D **EGASM**

DO RECOMMENDATION 05-MAY-2000 **ACCEPTABLE EGASM**

BASED ON FILE REVIEW BASED ON EI OF 11/17/99

ACCEPTABLE **EGASM** OC RECOMMENDATION 05-MAY-2000 DISTRICT RECOMMENDATION

Establishment: 9611205

GLAXO WELLCOME

2262

JURONG, , SN

AADA: Responsibilities: DRUG SUBSTANCE MANUFACTURER

OAI Status: NONE Profile: CSN

Estab. Comment: SYNTHESIS OF SALMETEROL XIANAFOATE (BUILDING 2). (on 28-MAY-1999

by D. KOBLE (HFD-570) 301-827-1066)

Milestone Name	Date	Req.	TypeInsp. Date	Decision & Reason	Creator
SUBMITTED TO OC	06-JUN-1999				KOBLED
SUBMITTED TO DO	07-JUN-1999	GMP			EGASM
ASSIGNED INSPECTION	'25-JUN-1999	GMP			EGASM
INSPECTION PERFORMED	29-JUN-1999		29-JUN-1999		EGASM
DO RECOMMENDATION	24-JAN-2000			ACCEPTABLE	EGASM
···· · · · · · · · · · · · · · · · · ·				INSPECTION	
OC RECOMMENDATION	24-JAN-2000			ACCEPTABLE	EGASM
	<u>.</u> . · · -			DISTRICT RECOMMEN	DATION
SUBMITTED TO OC	04-MAY-2000				KOBLED
OC RECOMMENDATION_	04-MAY-2000			ACCEPTABLE	EGASM
The second secon				BASED ON PROFILE	

Establishment: 9610421

GLAXO WELLCOME LTD

DL128DT

BARNARD CASTLE, , UK

Responsibilities: FINISHED DOSAGE STABILITY TESTER

OAI Status: NONE -Profile: CTL

Estab. Comment: STABILITY TESTING IS PERFORMED IN BUILDING L BLOCK (on 28-MAY-1999

by D. KOBLE (HFD-570) 301-827-1066)

Req. TypeInsp. Date Decision & Reason Creator Milestone Name Date

BASED ON PROFILE

FDA CDER EES ESTABLISHMENT EVALUATION REQUEST

DETAIL REPORT

SUBMITTED TO OC 06-JUN-1999 KOBLED OC RECOMMENDATION 07-JUN-1999 ACCEPTABLE EGASM

BASED ON PROFILE

SUBMITTED TO OC 04-MAY-2000 KOBLED

OC RECOMMENDATION 04-MAY-2000 ACCEPTABLE EGASM

Establishment: 9610414

GLAXO WELLCOME OPERATIONS UK

DA1 5AH

DARTFORD, KENT, UK

DMF No:

AADA:

Responsibilities: FINISHED DOSAGE RELEASE TESTER

Profile: CTL OAI Status: NONE

Estab. Comment: MICROBIOLOGICAL TESITING IN BUILDING 320. (on 28-MAY-1999 by D.

KOBLE (HFD-570) 301-827-1066)

Milestone Name Date Req. TypeInsp. Date Decision & Reason Creator SUBMITTED TO OC 06-JUN-1999 KOBLED SUBMITTED TO DO 07-JUN-1999 GMP **EGASM** ASSIGNED INSPECTION '25-JUN-1999 GMP **EGASM** INSPECTION SCHEDULED 29-JUN-1999 11-JUN-1999 **EGASM** INSPECTION PERFORMED 29-JUN-1999 11-JUN-1999 **EGASM** DO RECOMMENDATION 12-JUL-1999 ACCEPTABLE EGASM INSPECTION BASED ON EI OF 6/1-11/99 COVERING NDA 19-489/S-019 OC RECOMMENDATION 12-JUL-1999 ACCEPTABLE DISTRICT RECOMMENDATION SUBMITTED TO OC 04-MAY-2000 KOBLED OC RECOMMENDATION 04-MAY-2000 ACCEPTABLE **EGASM** BASED ON PROFILE

Establishment: 9617236

GLAXO WELLCOME SPAIN SA

28760

TRES CANTOS, MADRID, SP

DMF No:

AADA:

Responsibilities: FINISHED DOSAGE STABILITY TESTER

CTL -OAI Status: NONE

Estab. Comment: STABILITY TESTING IS PERFORMED IN BUILDING A (on 28-MAY-1999 by D.

Milestone Name Req. TypeInsp. Date Decision & Reason Creator SUBMITTED TO OC 06-JUN-1999 KOBLED OC RECOMMENDATION 07-JUN-1999 ACCEPTABLE EGASM BASED ON PROFILE SUBMITTED TO OC 04-MAY-2000 KOBLED OC RECOMMENDATION 04-MAY-2000 ACCEPTABLE EGASM BASED ON PROFILE

Establishment: 9610419

GLAXOCHEM LTD

DD10 8EA

MONTROSE ANGUS, SCOTLAND, UK

Page 4 of 5

FDA CDER EES ESTABLISHMENT EVALUATION REQUEST DETAIL REPORT

DMF No:

Responsibilities: DRUG SUBSTANCE MANUFACTURER OAI Status: NONE

AADA:

Estab. Comment: SYNTHESIS OF SALMETEROL XIANAFOATE (BUILDINGS 77 SOUTH, 101, 117,

(on						
Milestone Name	Date	Req.	Type Insp. I	ate	Decision & Reason	Creator
SUBMITTED TO OC	06-JUN-1999					KOBLED
SUBMITTED TO DO	07-JUN-1999					EGASM
ASSIGNED INSPECTION '		GMP			••	EGASM
NSPECTION SCHEDULED			03-DEC-			IRIVERA
INSPECTION PERFORMED			03-DEC-	1999		EGASM
OO RECOMMENDATION	24-JAN-2000				ACCEPTABLE	EGASM
					INSPECTION	
C RECOMMENDATION	24-JAN-2000				ACCEPTABLE	EGASM
					DISTRICT RECOMMEN	
UBMITTED TO OC	04-MAY-2000				4	KOBLED
C RECOMMENDATION	04-MAY-2000				ACCEPTABLE	EGASM
					BASED ON PROFILE	
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Milestone Name	Date	Req.	TypeInsp. I	ate	Decision & Reason	Creator
SUBMITTED TO OC	06-JUN-1999					KOBLED
C RECOMMENDATION	07-JUN-1999				ACCEPTABLE	EGASM
					BASED ON PROFILE	
UBMITTED TO OC	04-MAY-2000					KOBLED
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ט.	KOBLE	(HFD-570)	301-827-1066)

Milestone Na	me	Date	Req.	Type Insp.	Date	Decision & Reas	on Creator
SUBMITTED TO	oc o	6-JUN-1999		•		•	KOBLED
SUBMITTED TO	DO 0	7-JUN-1999	GMP				EGASM
ASSIGNED INS	PECTION '2	25-JUN-1999	GMP				EGASM
INSPECTION S	CHEDULED 2	22-JUL-1999		05-AUG	3-1999		IRIVERA
INSPECTION P	ERFORMED 0	9-AUG-1999		05-AUC	3-1999		IRIVERA
DO RECOMMENDA	ATION 2	29-OCT-1999				ACCEPTABLE	ADAMSS
						INSPECTION	
OC RECOMMEND	ATION 2	29-OCT-1999				ACCEPTABLE	ADAMSS
						DISTRICT RECOM	MENDATION

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FDA CDER EES ESTABLISHMENT EVALUATION REQUEST DETAIL REPORT

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SUBMITTED TO OC	04-MAY-2000	1				KOBLED
OC RECOMMENDATION	04-MAY-2000	ł			ACCEPTABLE	EGASM
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Establishment: 96	11905					
LAI	BORATOIRES GLAX)				
27	000		·.		•	
EV	REUX, CEDEX, FR				•••	
DMF No:			AADA:			
Responsibilities	: DRUG SUBSTANC	E			0.4.	
	CRU		OAT S	tatus:	NONE	
Estab. Comment:		LIAS S			E AND FLUTICSONE P	PODIONATE
					KOBLE (HFD-570) 30:	
Milestone Name		•		_		
	Date		Type Insp.	Date	Decision & Reason	
SUBMITTED TO OC	06-JUN-1999 07-JUN-1999					KOBLED
SUBMITTED TO DO DO RECOMMENDATION					ACCEPTABLE	EGASM- EGASM
DO RECOMMENDATION	N 10-A0G-1999	,				
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OC RECOMMENDATION	• •		G CRO		ACCEPTABLE	FERGUSONS
	20 1.00 2,55				DISTRICT RECOMME	
SUBMITTED TO OC	04-MAY-2000)			DIDIRICI RECORD	KOBLED
OC RECOMMENDATION	N 04-MAY-2000)			ACCEPTABLE	EGASM
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DMF No:			AADA:			
Responsibilities						
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Estab. Comment:			0112 0			
Milestone Name	Date	Rea.	Type Insp.	Date	Decision & Reason	Creator
SUBMITTED TO OC	06-JUN-1999		 _			KOBLED
OC RECOMMENDATION					ACCEPTABLE	EGASM
					BASED ON PROFILE	
SUBMITTED TO OC	_ 04-MAY-2000)			Jan de la la la la la la la la la la la la la	KOBLED
OC RECOMMENDATION					ACCEPTABLE	EGASM

BASED ON FILE REVIEW